

Spring 2005



Turner-Fairbank Highway Research Center

Organizational and Expertise Directory



U.S. Department of Transportation
Federal Highway Administration

Office of Research, Development, and Technology

Federal Highway Administration

Office of Research, Development, and Technology
Turner-Fairbank Highway Research Center
6300 Georgetown Pike, McLean, VA 22101



The Federal Highway Administration (FHWA) Office of Research, Development, and Technology (RD&T) is organized into 7 offices with 15 teams of experts in more than 30 transportation-related disciplines. Three research and development (R&D) offices—Operations, Safety, and Infrastructure—conduct R&D to continually improve highway operations and Intelligent Transportation Systems (ITS), safety, and infrastructure, respectively. The Office of Program Development and Evaluation develops and

Who we are and what we do

executes policy, budget, program management, and administrative mechanisms to help FHWA carry out a nationwide research and technology (R&T) program. The Office of Research and Technology Services develops and executes a comprehensive RD&T communications strategy and marketing plan that supports FHWA R&T programs and technology transfer and delivery. The Office of Resource Management provides administrative services for RD&T.

RD&T also manages the FHWA R&T Program, which directly supports the goals of the U.S. Department of Transportation (USDOT) to invest strategically in transportation infrastructure, promote safe and secure transportation, enhance our environment, and create

new alliances between the Nation's transportation and technology industries. The proposed Office of Corporate Research and Technology will support the FHWA R&T Program.

In virtually everything we do, we coordinate and/or collaborate extensively with other FHWA and DOT offices, State and local government partners, academic organizations, companies in the industry, military research offices, and professional organizations. In an effort to involve stakeholders and partners, and improve RD&T, FHWA is implementing a Corporate Master Plan that centers around Agency commitments and principles.

See RD&T fiscal year (FY) 2003 product and service descriptions and year-end statuses in the *Office of Research, Development, and Technology FY 2004 Performance Report*. Find a listing and descriptions of FY 2004–05 products and services in the *RD&T FY 2004/2005 Performance Plan*. The performance plan and report are available on the Turner-Fairbank Highway Research Center (TFHRC) Web site (www.tfhrc.gov).

We are proud of our contributions, products, and services that quickly and cost-effectively accelerate and transform new technologies and concepts into better transportation systems, processes, and services. With our partners, we improve our national quality of life. To be successful, we must respond to the needs of our national transportation system and its users—society at large. We meet the challenge by constantly emphasizing and demonstrating innovation.

RESEARCH THAT IS ESSENTIAL, INDISPENSABLE, AND CONNECTED TO OUR CUSTOMERS.

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FEDERAL HIGHWAY ADMINISTRATION

Office of the Administrator*

Assistant Secretary for
Budget and Programs

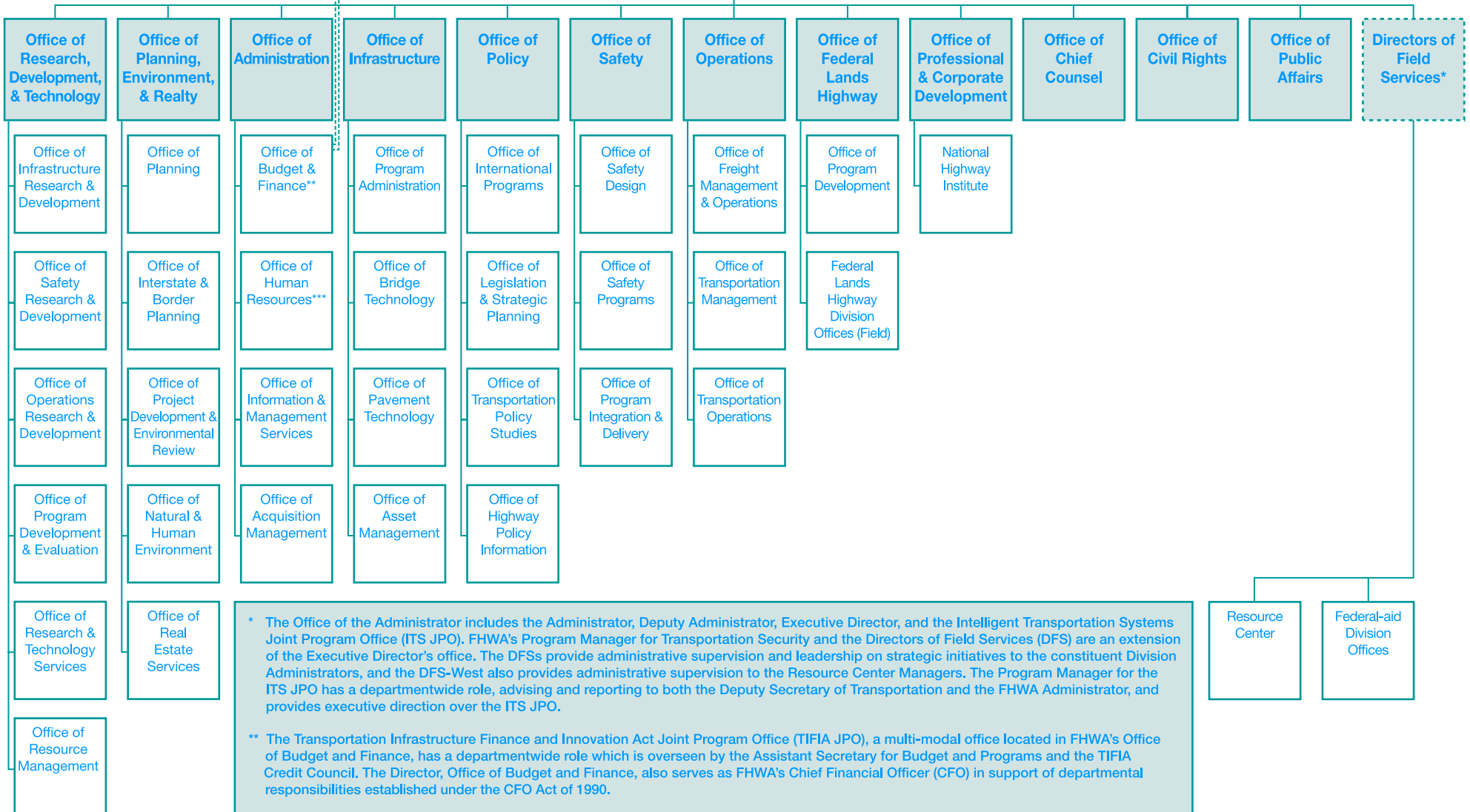
TIFIA Credit Council

Deputy Secretary

ITS Management Council

Program Manager for
Transportation Security*

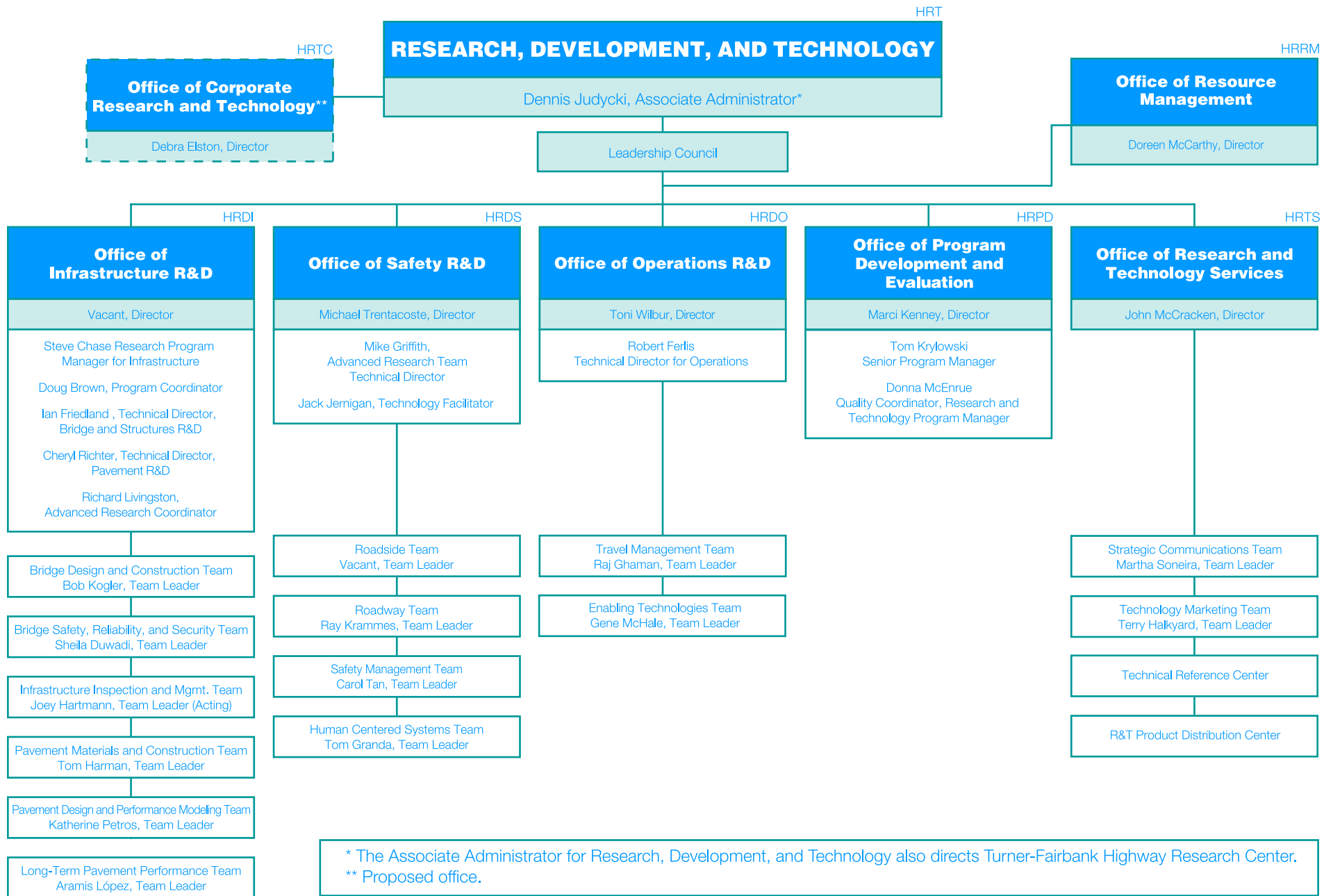
Program Manager
for the ITS JPO*



* The Office of the Administrator includes the Administrator, Deputy Administrator, Executive Director, and the Intelligent Transportation Systems Joint Program Office (ITS JPO). FHWA's Program Manager for Transportation Security and the Directors of Field Services (DFS) are an extension of the Executive Director's office. The DFSs provide administrative supervision and leadership on strategic initiatives to the constituent Division Administrators, and the DFS-West also provides administrative supervision to the Resource Center Managers. The Program Manager for the ITS JPO has a departmentwide role, advising and reporting to both the Deputy Secretary of Transportation and the FHWA Administrator, and provides executive direction over the ITS JPO.

** The Transportation Infrastructure Finance and Innovation Act Joint Program Office (TIFIA JPO), a multi-modal office located in FHWA's Office of Budget and Finance, has a departmentwide role which is overseen by the Assistant Secretary for Budget and Programs and the TIFIA Credit Council. The Director, Office of Budget and Finance, also serves as FHWA's Chief Financial Officer (CFO) in support of departmental responsibilities established under the CFO Act of 1990.

*** The DOT Automated Staffing Group, which is organizationally located within FHWA's Office of Human Resources, serves as the Department's "executive agent" for providing "one-stop" employment services to all job applicants applying for positions advertised through the DOT automated staffing system. Working with modal human resources offices, this Group provides automated staffing, delegated examining unit, and related human resources services.



April 2005

Office of the Associate Administrator

Fax: 202-493-3170

Office of the Associate Administrator, HRT-1

Dennis Judycki

Associate Administrator

202-493-3999 · dennis.judycki@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- TFHRC Director
- National Highway Research and Technology (R&T) Partnership leadership development and coordination
- Corporate facilitation and coordination of research, technology, and innovation deployment
- Advancement of Agency's strategic mission and role of "Innovators for a Better Future"

BACKUP PERSON

Michael Trentacoste

Jean Landolt

Secretary

202-493-3999 · jean.landolt@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support

MAJOR PROJECTS

- Office management

BACKUP PERSON

Elke Lower

Office of Corporate Research and Technology (Proposed)

Fax: 202-493-3475

Office of Corporate Research and Technology, HRTC-01

Debra Elston

Director

202-493-3181 · debra.elston@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- FHWA leadership liaison to “Raise the Bar” on research and deployment of technology and innovation (T&I)

MAJOR PROJECTS

- FHWA *Corporate Master Plan for Research and Deployment of T&I*
- Improvement process for engaging external stakeholders in research, technology, and innovation deployment
- Leadership and communication for Corporate Master Plan

BACKUP PERSON

Joe Conway

Joe Conway

Transportation Specialist

202-493-3186 · joe.conway@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Research, T&I deployment strategies

MAJOR PROJECTS

- *Corporate Master Plan for Research and Deployment of T&I*
- Technology deployment measurement and tracking
- Priority, Market-Ready Technologies and Innovations

BACKUP PERSON

Debra Elston

Ariam Asmerom

Transportation Specialist

202-493-3469 · ariam.asmerom@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- FHWA R&T Performance Measurement Framework
- FHWA mission oriented advanced research agenda

MAJOR PROJECTS

- Advanced research process and plan
- Corporate Master Plan performance measures
- Corporate research and technology report

BACKUP PERSON

Joe Conway

John Munro

Program Analyst

202-493-3368 · john.munro@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Information collection and analysis
- Knowledge management

MAJOR PROJECTS

- System for monitoring and communicating the development and deployment of the Corporate Master Plan
- R&T integrated information system
- Technology deployment survey (WAVE)

BACKUP PERSON

Ariam Asmerom

Susanna Hughes-Reck

Lakewood Research Center (Topic Liaison)

Transportation Specialist

720-963-3206 · susanna.hughesreck@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Agency process for T&I deployment

MAJOR PROJECTS

- Guidance and phases for T&I deployment
- Criteria to manage list of Market-Ready T&I
- Transportation Research Board T² Committee tool box

Shontai Hemphill-Johnson

Administrative Assistant (Contractor)

202-493-3190 · shontai.hemphill-johnson@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative and team support for corporate R&T

MAJOR PROJECTS

- Support advanced research agenda project
- Support integrated information system
- Support Office Director

Office of Resource Management

Fax: 202-493-3478

Office of Resource Management, HRRM-01

Doreen McCarthy

Director

202-493-3175 · doreen.mccarthy@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Director

MAJOR PROJECTS

- Leadership in management planning and logistical support areas

BACKUP PERSON

Richard Collins

Angela Lee

Administrative Assistant (Contractor)

202-493-3175 · angela.lee@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support

MAJOR PROJECTS

- Office management

Richard Collins

Accountant

202-493-3179 · richard.collins@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- R&T budget execution
- Funding certification
- Delphi review and research

MAJOR PROJECTS

- Accounting research, reconciliation, and reporting for RD&T/FHWA

BACKUP PERSON

Diana Martin

Georgia Curtis

Administrative Management Specialist

202-493-3180 · georgia.curtis@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Activity 10 budget execution
- Travel management
- Contract administration and oversight

MAJOR PROJECTS

- Activity 10, research, reconciliation, and reporting
- COTR for clerical support contract
- Travel oversight and consultation

BACKUP PERSON

Freddie Forster

Diana Martin

Program Analyst

202-493-3168 · diana.martin@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Financial management
- Acquisition review
- IT support oversight

MAJOR PROJECTS

- RD&T accounts research, reconciliation, and reporting
- COTR for IT support contract
- PR/solicitation review

BACKUP PERSON

Sue Stanton

Carol Roberts

Administrative Management Specialist

202-493-3185 · carol.roberts@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Human resource management

MAJOR PROJECTS

- Human resource management and consultation
- Workforce planning
- FAIR inventory development

BACKUP PERSON

Doreen McCarthy

Freddie Forster

Administrative Management Specialist

202-493-3298 · freddie.forster@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- RD&T employee development
- Purchase Card program oversight
- Accounting research and reconciliation

MAJOR PROJECTS

- RD&T Purchase Card program manager
- RD&T training manager
- Financial management assistance

BACKUP PERSON

Carol Roberts

Denise Seward

Administrative Management Specialist

202-493-3471 · denise.seward@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Accountable property and inventory
- Performance measurement

MAJOR PROJECTS

- Accountable property management
- Performance management team

BACKUP PERSON

Georgia Curtis

Office of Resource Management, HRRM-01

(continued)

Sue Stanton

Program Analyst

202-493-3480 · sue.stanton@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Acquisition planning
- Contract administration and oversight
- COTR development and certification
- Facility security, emergency planning, and management
- Business process review and improvement

MAJOR PROJECTS

- Advance Acquisition Planning System pilot
- COTR for Electronics Lab contract
- COTR certification program
- Facility capital planning, security and Continuity of Operations Plan (COOP)

BACKUP PERSON

Doreen McCarthy

Management Services Division, HAIM-20

Brian Kerr

202-493-3000 · brian.kerr@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Facilities Manager

MAJOR PROJECTS

- Facilities operations

BACKUP PERSON

Lyle Hayhurst

Office of Program Development and Evaluation

Fax: 202-493-3170

Office of Program Development and Evaluation, HRPD-01

Marci Kenney

Director

202-493-3166 · marci.kenney@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Overall leadership of R&T program development and evaluation
- Lead for Office of the Secretary of Transportation (OST)-level and multimodal R&T coordination
- Focal point for coordination of R&T program issues

MAJOR PROJECTS

- FHWA R&T program development and evaluation
- USDOT R&T Coordinating Council
- Liaison with Transportation Research Board (TRB) R&T Coordinating Committee
- Focal point for coordination of international R&T programs

BACKUP PERSON

Tom Krylowski

Vicki Rand

Administrative Assistant (Contractor)

202-493-3166 · vicki.rand@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support

MAJOR PROJECTS

- Office and meeting support

Tom Krylowski

Senior Program Manager

202-493-3470 · tom.krylowski@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- National R&T programs
- R&T program formulation in cooperation with headquarters and field offices
- Focal point for R&T budget issues
- Future Strategic Highway Research Program (F-SHRP)

MAJOR PROJECTS

- National Highway R&T programs
- Federal/State R&T program
- F-SHRP liaison
- Liaison with TRB Research and Technology Coordinating Committee

BACKUP PERSON

Norm Paulhus

Norm Paulhus

Transportation Specialist

202-493-3491 · norm.paulhus@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Development of R&T program plan and budget
- Development and review of legislative proposals
- Support for OST-level and multimodal R&T coordination
- Staff focal point for Office of Management and Budget (OMB) PART assessment and interagency research program reviews
- FHWA Small Business Innovation Research (SBIR) Program Manager
- Coordination with Research and Special Programs Administration (RSPA) for the University Transportation Center (UTC) Program

MAJOR PROJECTS

- Annual R&T budget
- Legislative proposals
- Headquarters and field office coordination
- Support for interagency working groups

BACKUP PERSON

Tom Krylowski

Donna McEnrue

Quality Coordinator, Research and Technology Program Manager

202-493-3172 · donna.mcenrue@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- RD&T Leadership Council Facilitator
- RD&T Quality Program initiatives
- RD&T Lab Assessment Program

MAJOR PROJECTS

- Leadership Council Meeting coordination
- RD&T Action Agenda development
- Annual RD&T Quality Self-Assessment coordination
- RD&T Lab Assessment Process coordination

BACKUP PERSON

Joe Parks

Bill Zaccagnino

Research and Technology Program Manager

202-493-3183 · william.zaccagnino@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- RD&T State Planning and Research Program Manager
- FHWA Manager for National Cooperative Highway Research Program (NCHRP)
- RD&T liaison for TRB activities
- State peer exchange program

MAJOR PROJECTS

- American Association of State Highway and Transportation Officials' (AASHTO) Standing Committee on Research and Research Advisory Committee (SCOR/RAC)
- Core Program contract with TRB
- NCHRP coordination
- Liaison for NCHRP Projects 20-5 and 20-39(2)
- State peer exchange monitoring

BACKUP PERSON

Lisa Williams

Office of Program Development and Evaluation, HRPD-01

(continued)

Joe Parks

Research and Technology Program Analyst

202-493-3414 · jowell.parks@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Performance planning
- Performance measures
- R&T strategic planning support
- RD&T alternate for USDOT R&T Coordinating Council

MAJOR PROJECTS

- RD&T Performance Plan
- RD&T Performance Report
- RD&T Performance Management Working Group
- RD&T performance measures
- FHWA input into USDOT R&D Strategic Plan
- Interagency Working Group support

BACKUP PERSON

Donna McEnrue

Lisa Williams

*Program Analyst/
Transportation Pooled Fund (TPF) Coordinator*

202-493-3376 · lisa.williams@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Promotion and administration of the TPF Program

MAJOR PROJECTS

- Management of TPF Program
- FHWA liaison for TPF projects
- TPF Web site updates
- TPF Program annual report
- Briefings and training on TPF Program

BACKUP PERSON

Bill Zaccagnino

Office of Research and Technology Services

John McCracken, Director

Strategic Communications Team

Martha Soneira, Team Leader

Technology Marketing Team

Terry Halkyard, Team Leader

Office of Research and Technology Services

Fax: 202-493-3475

Office of Research and Technology Services, HRTS-01

John McCracken

Director

202-493-3422 · john.mccracken@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Leadership
- Budget planning
- Communications strategy

MAJOR PROJECTS

- T&I delivery
- R&T story

BACKUP PERSON

Martha Soneira

Kimberly Williams

Administrative Assistant (Contractor)

202-493-3423 · kimberly.williams@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support to the Office Director; Strategic Communications Team; and the Technology Marketing Team

MAJOR PROJECTS

- Office activities scheduling
- Office materials proofreading
- Correspondence control/routing organization

Strategic Communications Team, HRTS-02

Martha Soneira

Team Leader

202-493-3468 · martha.soneira@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Communications leadership
- Budget/quality coordination
- Communications consulting
- *Public Roads* Editor-in-Chief
- *R&T Transporter* Managing Editor

MAJOR PROJECTS

- Communication support services management
- R&T marketing/communications network liaison
- Engineers Week and Future City coordination
- Office liaison for Infrastructure R&D
- CLEAR Communications Committee
- TFHRC Communication Plan

BACKUP PERSON

Paula Magoulas

Paula Magoulas

Transportation Specialist

202-493-3398 · paula.magoulas@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Communication Projects Coordinator
- Communication Support Service Coordinator
- Communication/graphic consultation
- *Public Roads* Creative Director

MAJOR PROJECTS

- Communication support services management
- Communication projects coordination
- Office liaison for Program Development and Evaluation

BACKUP PERSON

Martha Soneira

Dawn Vanlandingham

Writer/Editor

202-493-3198 · dawn.vanlandingham@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- R&T multimedia and Web publishing
- TFHRC Web site management
- *Public Roads* Managing Editor
- Success story coordination

MAJOR PROJECTS

- Communications projects coordination
- Office liaison for Safety R&D and Program Development and Evaluation

BACKUP PERSON

Martha Soneira

Technology Marketing Team, HRTS-03

Terry Halkyard

Team Leader

202-493-3467 · terry.halkyard@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Technology marketing leadership
- Budget/quality coordination
- Electronic imaging library

MAJOR PROJECTS

- R&T Web site management
- Management of Highway Innovation Technology Evaluation Center Cooperative Agreement

BACKUP PERSON

Kevin Connor

Kevin Connor

Transportation Specialist

202-493-3187 · kevin.connor@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- R&T Product Distribution Center Manager
- *Technology and Innovation* Managing Editor
- FHWA exhibit services support
- Multimedia technology
- Microsoft® PowerPoint® presentation assistance

MAJOR PROJECTS

- R&T Product Distribution Center
- Digital video and photography technology management
- Office liaison for Infrastructure R&D and Safety R&D

BACKUP PERSON

Terry Halkyard

Zachary Ellis

Publishing Specialist

202-493-3193 · zac.ellis@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Conference and Publishing Services Contract Manager
- R&T multimedia publishing
- Information fulfillment
- Photography
- *Focus* newsletter Managing Editor

MAJOR PROJECTS

- Technical Reference Center management
- Special Libraries Association
- Office liaison for Operations R&D

BACKUP PERSON

Terry Halkyard

R&T Publications Support

Velma Mackall

Reference Support

202-493-3205 · velma.mackall@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Technical Reference Center

BACKUP PERSONS

Kevin Connor

Zac Ellis

Carlton Brigham

Onsite Manager

301-577-0818 · report.center@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- R&T Product Distribution Center, Lanham, MD

BACKUP PERSON

Kevin Connor

Office of Operations R&D

Toni Wilbur, Director

**Robert Ferlis,
Technical Director for Operations**

Travel Management Team
Raj Ghaman, Team Leader

Enabling Technologies Team
Gene McHale, Team Leader

Office of Operations R&D

Fax: 202-493-3419

Office of Operations R&D, HRDO-01

Toni Wilbur

Director, HRDO-01

202-493-3303 · toni.wilbur@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Leadership of Operations R&D
- Transportation management and operations improvement through research, development, and testing
- Identification of future opportunities

MAJOR PROJECTS

- Office business plan
- Enhanced digital maps
- Surface transportation security and reliability information system model deployment

BACKUP PERSON

Robert Ferlis

Selene Adams

Administrative Assistant

202-493-3303 · selene.adams@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support

MAJOR PROJECTS

- Office management

Technical Director, HRDO-02

Robert Ferlis

Technical Director

202-493-3268 · robert.ferlis@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Coordination of project team activities with FHWA's Strategic Plan and Performance Plan goals and objectives
- Technical advice for project teams
- Customer/partner feedback
- RD&T product deployment

MAJOR PROJECTS

- Unit planning
- ITS support
- Advanced mobility systems
- Liaison to headquarters and field offices
- Vehicle-Highway Automation
- Vehicle-Infrastructure Integration (VII)

BACKUP PERSON

Raj Ghaman

Travel Management Team, HRDO-03

Raj Ghaman

Team Leader

202-493-3270 · raj.ghaman@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Program management and development
- Contract management
- Technical direction
- Team management and leadership

MAJOR PROJECTS

- Adaptive control hardware and software development including national standards
- National Highway Institute course instruction
- Dynamic control software
- Adaptive Control Software (ACS) "Lite"
- Traffic management center (TMC) pooled fund

BACKUP PERSON

Deborah Curtis

Henry Lieu

Highway Research Engineer

202-493-3273 · henry.lieu@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Development of Dynamic Traffic Assignments (DTA) Systems
- Capacity and level of service
- Infrastructure security
- Weather

MAJOR PROJECTS

- DTA and traffic flow theory
- Technical support and program management
- Software testing
- Adverse weather traffic operations

BACKUP PERSONS

Raj Ghaman
Deborah Curtis

Travel Management Team, HRDO-03

(continued)

Deborah Curtis

Highway Research Engineer

202-493-3267 · deborah.curtis@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- ACS, ramp metering, ACS evaluation, and operation of work zones
- Advanced research
- Freight analysis and modeling

MAJOR PROJECTS

- Ramp metering for recurring and nonrecurring congestion
- Strategic Work Zone Analysis Program
- QuickZone

BACKUP PERSON

Raj Ghaman

James Colyar

Highway Research Engineer

202-493-3282 · james.colyar@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Freeway operations
- Transit priority/pre-emption
- Traffic analysis tools
- Traffic modeling and simulation
- Next Generation Simulation Modeling (NGSIM)
- Evacuations

MAJOR PROJECTS

- Transit operations enhancements
- Weather effects on system operations
- Next generation of simulation software
- Traffic software integrated system maintenance

BACKUP PERSON

Raj Ghaman

Dale Thompson

Transportation Specialist

202-493-3420 · dale.thompson@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Operations partnerships
- Access management
- Performance measures and data quality

MAJOR PROJECTS

- TMC pooled fund
- Integrated corridor management systems

BACKUP PERSON

Raj Ghaman

Randall VanGorder

Highway Research Engineer

202-493-3266 · randall.vangorder@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Traffic Research Lab (TReL) development and management
- Incident management
- Intelligent Vehicle Initiative (IVI) specialty vehicles
- Technology facilitation

MAJOR PROJECTS

- Manage TReL
- Development of TReL integrated environment
- TReL Strategic Plan development
- Specialty vehicle field operational test with Minnesota DOT

BACKUP PERSON

Raj Ghaman

Enabling Technologies Team, HRDO-04

Gene McHale

Team Leader

202-493-3275 · gene.mchale@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Sensor-friendly vehicle and roadway methods
- Technical direction
- Team management and leadership
- Infrastructure Consortium

MAJOR PROJECTS

- Cooperative intersection collision avoidance systems (CICAS)
- Cooperative roadway departure crash avoidance systems

BACKUP PERSON

Peter Huang

James Arnold

Electronic Engineer

202-493-3265 · james.a.arnold@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Global positioning system (GPS)
- Dedicated short-range communication (DSRC)

MAJOR PROJECTS

- Nationwide Differential GPS (NDGPS) and High-Accuracy NDGPS
- Technical support to ITS communications systems

BACKUP PERSON

Rudy Persaud

Enabling Technologies Team, HRDO-04

(continued)

David Gibson

Highway Research Engineer

202-493-3271 · david.gibson@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Advanced and innovative research
- University research liaison
- Traffic sensors and detection

MAJOR PROJECTS

- Sensors and controllers for CICAS
- University Research Centers of Excellence

BACKUP PERSON

Gene McHale

Peter Huang

Highway Research Engineer

202-493-3484 · peter.huang@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- IVI enabling research
- Intersection collision avoidance

MAJOR PROJECTS

- Technologies for CICAS testing and evaluation
- Infrastructure-based intersection collision avoidance experimental tests with State DOTs
- ITS applications for work zones

BACKUP PERSON

David Gibson

Rudy Persaud

Highway Research Specialist

202-493-3391 · rudy.persaud@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Road weather management
- Rural ITS
- GPS

MAJOR PROJECTS

- Winter maintenance decision support systems
- Environmental sensor stations investments
- NDGPS development

BACKUP PERSON

James Arnold

Office of Safety R&D

Michael Trentacoste, Director

Michael Griffith,
Technical Director for Safety
Advanced Research Team

Jack Jernigan,
Technology Facilitator

Roadside Team

Team Leader, Vacancy

Roadway Team

Ray Krammes, Team Leader

Safety Management Team

Carol Tan, Team Leader

Human Centered Systems Team

Tom Granda, Team Leader

Office of Safety R&D

Fax: 202-493-3170 (HRDS-01) • Fax: 202-493-3374 (HRDS-02, HRDS-06, HRDS-07) • Fax: 202-493-3417 (HRDS-04, HRDS-05)

Office of Safety R&D, HRDS-01

Michael Trentacoste

HRDS-01 Director

202-493-3260 • michael.trentacoste@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Advocacy for a nationally coordinated Safety R&D Program
- Development of FHWA Safety R&D Program
- Advanced research program leadership

MAJOR PROJECTS

- F-SHRP Safety coordination
- FHWA Safety R&T Roadmap development
- RD&T Leadership Council efforts to improve TFHRC
- Facilitation of Safety R&D product and service deployments
- Advanced research planning and implementation process

BACKUP PERSON

Michael Griffith

Elke Lower

HRDS-01 Secretary

202-493-3260 • elke.lower@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support

MAJOR PROJECTS

- Office management

Advanced Research Team, HRDS-02

Michael Griffith

Technical Director

202-493-3316 • mike.griffith@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Safety R&D Program coordination
- Direction and delivery of FHWA Safety R&D Program
- Technical oversight and guidance

MAJOR PROJECTS

- National Highway R&T Partnership Initiative-Safety
- SafetyAnalyst project
- Effectiveness of red-light running cameras
- Highway safety manual

BACKUP PERSON

Jack Jernigan

Jack Jernigan

Technology Facilitator

202-493-3363 • jack.jernigan@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Deployment of RD&T products
- Customer feedback

MAJOR PROJECTS

- Technology facilitation strategy development
- Customer satisfaction survey

BACKUP PERSON

Michael Griffith

Pete Mills

Electronic Engineer

202-493-3338 • pete.mills@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Advanced research
- Sensors
- Electromagnetics
- Simulation

MAJOR PROJECTS

- Digital highway measurements van
- Software testing
- Pattern recognition algorithms development

BACKUP PERSON

Mort Oskard

Mort Oskard

Operations Research Engineer

202-493-3339 • mort.oskard@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Advanced research
- Data visualization
- Inverse analysis
- Roadside safety

MAJOR PROJECTS

- Optimization and inverse roadside safety analysis
- Simulation modeling research and development
- Rollover causation and reduction study

BACKUP PERSON

Pete Mills

Cara Wood

Administrative Assistant (Contractor)

202-493-3372 • cara.wood@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support

MAJOR PROJECTS

- Support for Technical Director, Human Centered Systems (HCS) Team, and Safety Management Team

Advanced Research Team, HRDS-02

(continued)

Thelma Moore

Administrative Assistant (Contractor)

202-493-3322 · thelma.moore@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support

MAJOR PROJECTS

- Support for Roadside and Roadway Teams

Roadside Team, HRDS-04

Vacancy

Team Leader

202-493-3317

PRIMARY RESPONSIBILITIES

- Roadside Team Leader
- Management of FHWA/National Highway Traffic Safety Administration (NHTSA) National Crash Analysis Center (NCAC)
- Analysis and design of anti-ram barriers

MAJOR PROJECTS

- FHWA/NHTSA NCAC management
- Roadside Safety R&D plan
- Development of anti-ram barriers

BACKUP PERSON

Roadside Team, HRDS-04

(continued)

Martin Hargrave

Research Mechanical Engineer

202-493-3311 · martin.hargrave@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Improvement of finite element analysis (FEA) as a tool for the crashworthy analysis of roadside safety devices
- Development of side-impact crashworthy analysis procedures for roadside safety hardware
- Application of high-performance (composite) materials to roadside safety devices

MAJOR PROJECTS

- FEA improvements applied to roadside safety applications
- Side-impact: test procedures and preliminary countermeasures
- Composite material guardrail system development

BACKUP PERSON

Ken Opiela

Vacant

Structural Engineer

202-493-3313

PRIMARY RESPONSIBILITIES

- Testing and development of new and improved traffic barriers
- Federal Outdoor Impact Lab (FOIL)

MAJOR PROJECTS

- FEA of roadside safety hardware
- Development of new and improved guardrails, transition sections, and aesthetic traffic barriers
- Development of energy-absorbing utility poles and break-away guy wires

BACKUP PERSON

Roadway Team, HRDS-05

Ray Krammes

Team Leader

202-493-3312 · ray.krammes@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Roadway Team Leader
- Geometric design and safety

MAJOR PROJECTS

- Interactive Highway Safety Design Model (IHSDM)

BACKUP PERSONS

Joe Bared

Carl Andersen

Physicist

202-493-3366 · carl.andersen@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Arens Photometric and Visibility Lab
- Roadway visibility research

MAJOR PROJECTS

- Night visibility enhancement
- Roadway visibility modeling
- Traffic signal light improvement
- Visibility and lighting research

BACKUP PERSON

Ken Opiela

Joe Bared

Highway Research Engineer

202-493-3314 · joe.bared@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Intersection safety and operations
- Safety and geometric design

MAJOR PROJECTS

- Development of high-volume signalized intersections informational guide
- Implementation of surrogate safety assessment methods in traffic simulation models
- Safety and operational analyses of intersection and interchange design alternatives

BACKUP PERSON

Ray Krammes

A.J. Nedzesky

Highway Research Engineer

202-493-3369 · aj.nedzesky@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Traffic engineering and safety

MAJOR PROJECTS

- Speed management research program

BACKUP PERSON

Ray Krammes

Ken Opiela

Highway Research Engineer

202-493-3371 · kenneth.opiela@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Visibility
- Work zones
- Traffic control devices

MAJOR PROJECTS

- Development of updated minimum levels for sign retroreflectivity
- Development of methods for maintaining traffic sign retroreflectivity
- Pavement marking retroreflectivity needs
- Work zone accident exposure analysis
- Work zone safety for new drivers

BACKUP PERSONS

Carl Andersen
Ray Krammes

Safety Management Team, HRDS-06**Carol Tan**

Team Leader

202-493-3315 · carol.tan@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Highway safety analysis
- Highway safety data
- Geometric design and safety
- Geographic Information System safety applications
- Safety management systems
- SafetyAnalyst development support

MAJOR PROJECTS

- Activities involving Highway Safety Information System (HSIS)
- Crash Prediction Algorithm of IHSDM

BACKUP PERSONS

Janet Bahouth

Janet Bahouth

Transportation Specialist

202-493-3320 · janet.bahouth@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Traffic Engineering and Safety
- Highway Safety Analysis

MAJOR PROJECTS

- Rollover Causation Study

BACKUP PERSON

Carol Tan

Kerry Perrillo

Highway Research Engineer

202-493-3318 · kerry.perrillo@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Traffic engineering and safety

MAJOR PROJECTS

- AASHTO Strategic Highway Safety Plan
- Roadside/roadway hardware asset management
- Countermeasure evaluation

BACKUP PERSON

Carol Tan

Human Centered Systems Team, HRDS-07

Thomas M. Granda

Team Leader, Engineering Research Psychologist

202-493-3365 · thomas.granda@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Human Centered Systems (HCS) program development
- HCS technical support coordination

MAJOR PROJECTS

- HCS safety research program
- HCS operations research program
- TMC Pooled Fund Study

BACKUP PERSON

Joe Moyer

Ann Do

Highway Research Engineer

202-493-3319 · ann.do@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Pedestrian and bicycle safety
- Geometric design and safety

MAJOR PROJECTS

- Pedestrian and Bicycle Safety Research Program

BACKUP PERSON

Gabriel Rousseau

Gregory Davis

Engineering Research Psychologist

202-493-3367 · gregory.davis@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Human Centered Systems safety research
- ITS technology development

MAJOR PROJECTS

- Human factors research on novel intersection designs
- Accessibility issues at intersections
- Cooperative intersection collision avoidance systems (ICAS)

BACKUP PERSON

Tom Granda

Joe Moyer

Engineering Research Psychologist

202-493-3370 · joe.moyer@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Human Centered Systems Lab Manager
- Safety and operations research
- Highway driving simulator

MAJOR PROJECTS

- Visibility studies
- Traffic Control Devices Pooled Fund Study
- Driving simulator upgrade

BACKUP PERSON

Tom Granda

Gabriel Rousseau

Engineering Research Psychologist

202-493-3383 · gabriel.rousseau@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Human Centered Systems safety research (pedestrian and bicycle safety, speed management)
- Older driver research

MAJOR PROJECTS

- Speed management research
- Pedestrian and bicycle safety research

BACKUP PERSON

Ann Do
Joe Moyer

Office of Infrastructure R&D

Vacant, Director

**Steve Chase,
Research Program Manager for Infrastructure**

Doug Brown, Program Coordinator
Ian Friedland, Technical Director, Bridge and Structures R&D
Cheryl Richter, Technical Director, Pavement R&D
Richard Livingston, Advanced Research Coordinator

Bridge Design and Construction Team

Bob Kogler, Team Leader

Bridge Safety, Reliability, and Security Team

Sheila Duwadi, Team Leader

Infrastructure Inspection and Management Team

Joey Hartmann, Team Leader (Acting)

Pavement Materials and Construction Team

Tom Harman, Team Leader

Pavement Design and Performance Modeling Team

Katherine Petros, Team Leader

Long-Term Pavement Performance Team

Aramis López, Team Leader

Office of Infrastructure R&D

Fax: 202-493-3442 (HRDI-01, HRDI-02, HRDI-07, HRDI-10) • Fax: 202-493-3086 (HRDI-03, HRDI-05)

Fax: 202-493-3161 (HRDI-04, HRDI-11, HRDI-12, HRDI-13) • Fax: 202-493-3477 (HRDI-06)

Office of Infrastructure R&D, HRDI-01

Vacant

HRDI-01, Director

PRIMARY RESPONSIBILITIES

- Program direction and guidance for the Office of Infrastructure R&D
- Technical and administrative supervision of HRDI teams
- Interaction with headquarters and Resource Centers

MAJOR PROJECTS

- Consolidated RD&T multiyear needs, programs, and budget
- National Partnership Initiative advancement
- Corporate management strategies development

Steve Chase

HRDI-01, Research Program Manager

202-493-3038 • steve.chase@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Policy, direction, and management support to Office Director
- Program development and delivery direction to HRDI teams

MAJOR PROJECTS

- HRDI management strategies and business practices
- Infrastructure R&T Program development

Janet Klein

HRDI-01, Administrative Program Assistant

202-493-3384 • janet.klein@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support for the Infrastructure R&D Program

MAJOR PROJECTS

- Time and attendance personnel documents
- Team leader council meeting plans and minutes
- Office supplies
- Office communication activities

Esther Camaño

HRDI-01, Administrative Assistant (Contractor)

202-493-3022 • esther.camano@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support to the Office Director; Research Program Manager; Program Coordinator; Technical Director for Bridges; the Bridge Design and Construction Team; the Bridge Safety, Reliability, and Security Team; and the Infrastructure Inspection and Management Team

Monique Williams

HRDI-01, Administrative Assistant (Contractor)

202-493-3143 • monique.williams@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Administrative support to the Technical Director for Pavements; the Advanced Research Coordinator; the Pavement Materials and Construction Team; the Pavement Design and Performance Modeling Team; and the Long-Term Pavement Performance Team

Doug Brown

HRDI-02, Program Coordinator

202-493-3146 • doug.brown@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Advice to Office Director on office operations
- Program coordination and monitoring
- Fiscal accountability within the office

MAJOR PROJECTS

- Office management initiatives
- Program and budget monitoring
- Accountable property inventory updates

Ian Friedland

HRDI-03, Technical Director, Bridge and Structures R&D

202-493-3023 • ian.friedland@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Leadership and technical direction for bridge and structures-related programs and studies
- Promotion of RD&T products

MAJOR PROJECTS

- Program and budget documents
- External partnerships development
- Technology facilitation for bridges and other highway structures

Cheryl Richter

HRDI-04, Technical Director, Pavement R&D

202-493-3070 • cheryl.richter@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Leadership and technical direction for pavement-related programs and studies
- Promotion of RD&T products

MAJOR PROJECTS

- Program and budget documents
- External partnerships development
- Technology facilitation for pavements

Richard Livingston

HRDI-05, Advanced Research Coordinator

202-493-3063 • dick.livingston@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Advanced research

MAJOR PROJECTS

- Embeddable sensor systems
- Nondestructive evaluation (NDE) for materials characterization
- Materials science of portland cement concrete (PCC) setting
- PCC durability

Bridge Design and Construction Team, HRDI-06

Bob Kogler

Team Leader

202-493-3080 · bob.kogler@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Bridge Design and Construction Team Leader
- Bridge corrosion protection
- Steel bridge coating research
- Coating systems

MAJOR PROJECTS

- Bridge of the Future
- Bridge coatings guidelines
- Hazardous bridge coatings
- Bridge coatings inspection
- Steel bridge paint system

BACKUP PERSON

William Wright

William Wright

Structures Laboratory Manager

202-493-3053 · bill.wright@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Structures Lab Manager
- High-performance steel
- Curved steel girder bridges
- Fatigue and fracture mechanics

MAJOR PROJECTS

- Bridge of the Future
- Curved steel girder research
- High-performance steel bridges
- High-performance steel development

BACKUP PERSON

Joey Hartmann

Eric Munley

Research Structural Engineer

202-493-3046 · eric.munley@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Fiber-reinforced polymer (FRP) composites
- Adhesive-bonded connections

MAJOR PROJECTS

- Bridge of the Future
- FRP prestressing
- Adhesives research
- FRP specification development
- Accelerated test development for FRP materials

BACKUP PERSON

William Wright

Joey Hartmann

Research Structural Engineer

*Acting Team Leader,
Infrastructure Inspection and Management Team*

202-493-3059 · joseph.hartmann@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- High-performance concrete
- Structural testing
- Concrete bridges
- Curved steel girder bridges

MAJOR PROJECTS

- Bridge of the Future
- High-performance concrete bridges
- Concrete specifications
- High-performance materials
- Curved steel girder bridges

BACKUP PERSONS

William Wright
Eric Munley

Masoud Nasabzadeh

Engineering Technician

202-493-3047 · masoud.nasabzadeh@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Instrumentation
- Hardware and software maintenance and consultation

MAJOR PROJECTS

- Curved-girder steel bridge research
- Research on high-performance steel

BACKUP PERSON

William Wright

Al DiMillio

Geotechnical Research Engineer

202-493-3035 · al.dimillio@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Geotechnical engineering
- Shallow foundation systems
- Ground improvement technology

MAJOR PROJECTS

- Spread footing design for settlement
- Micropile systems for seismic retrofit
- Deep soil mixing for excavation
- National system of geotechnical test sites

BACKUP PERSONS

Mike Adams
Carl Ealy

Bridge Design and Construction Team, HRDI-06

(continued)

Mike Adams

Geotechnical Research Engineer

202-493-3025 · mike.adams@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Retaining wall systems
- Spread footing design
- Engineering geology
- Geosynthetic reinforced soil (GRS) structures

MAJOR PROJECTS

- Bridge of the Future
- Reinforced soil beneath spread footings
- Model testing of GRS structures
- Geosynthetic durability testing
- Design of foundation anchors in soil and rock

BACKUP PERSONS

Al DiMillio
Carl Ealy

Carl Ealy

Geotechnical Research Engineer

202-493-3039 · carl.ealy@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Deep foundations engineering
- In situ testing techniques
- Geotechnical database management
- Innovative load testing systems
- Load and Resistance Factor Design (LRFD) for geotechnical engineering

MAJOR PROJECTS

- Resistance factors for piles and drilled shafts
- Automated geotechnical information and design system
- Composite pile design using waste plastics

BACKUP PERSONS

Al DiMillio
Mike Adams

Bridge Safety, Reliability, and Security Team, HRDI-07

Sheila Duwadi

Team Leader

202-493-3106 · sheila.duwadi@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Bridge Safety, Reliability, and Security Team Leader
- Timber bridge research
- Bridge design
- Bridge security

MAJOR PROJECTS

- Bridge and tunnel security research program
- Advanced wood/FRP composites
- Integration of wood in transportation programs

BACKUP PERSON

John O'Fallon

John O'Fallon

Bridge Research Engineer

202-493-3051 · john.o'fallon@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- General bridge engineering
- Culverts

MAJOR PROJECTS

- Seismic vulnerability assessment
- Liaison for several NCHRP projects
- Covered bridge preservation

BACKUP PERSONS

Sheila Duwadi
Harold Bosch
Sterling Jones

Harold Bosch

Research Structural Engineer

202-493-3031 · harold.bosch@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Aerodynamics Lab Manager
- Structural dynamics
- Aerodynamic stability
- Wind loads on structures
- Weigh-in-motion

MAJOR PROJECTS

- Wind research program
- Aerodynamic stability of bridges
- Wind-induced vibration of cables
- Aerodynamic properties of tapered cylinders
- Prediction methods for aerodynamic response
- Computational Fluid Dynamic flow simulation techniques

BACKUP PERSON

Hamid Ghasemi

Phillip Yen

Research Structural Engineer

202-493-3056 · wen-huei.yen@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Seismic research program
- United States-Japan research in bridge seismic design and retrofitting
- LRFD design for structures

MAJOR PROJECTS

- Bridge vibration testing
- Cross diagnosis method for globally monitoring bridges
- NCHRP 12-49, "Comprehensive Specification for the Seismic Design of Bridges"
- Seismic vulnerability
- Multihazard study
- Seismic performance testing

BACKUP PERSON

Hamid Ghasemi

Bridge Safety, Reliability, and Security Team, HRDI-07

(continued)

Sterling Jones

Research Hydraulic Engineer

202–493–3043 · sterling.jones@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Hydraulics Lab Manager
- Hydraulics and hydrology

MAJOR PROJECTS

- Hydraulic research program
- Bridge scour guidelines
- Woodrow Wilson scour study
- Culvert study
- Bottomless culverts

BACKUP PERSON

Kornel Kerenyi

Hamid Ghasemi

Research Structural Engineer

202–493–3042 · hamid.ghasemi@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Structural health monitoring
- Bridge dynamics
- Earthquake protective systems
- NDE of bridge members
- Bridge design, analysis, and computer modeling
- United States-Turkey collaboration on bridge design and health monitoring related issues

MAJOR PROJECTS

- Health monitoring of signature bridges
- Earthquake protective systems
- Bridge dynamics and modal testing
- Seismic isolation
- Liaison for several NCHRP projects
- Near-source ground motions

BACKUP PERSON

Phillip Yen

Kornel Kerenyi

Research Hydraulic Engineer

202–493–3142 · kornel.kerenyi@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Hydraulics and hydrology

MAJOR PROJECTS

- Bridge scour studies
- Pressure flow scour
- Culvert hydraulics
- Bottomless culverts
- Highway drainage studies
- Multihazard modeling

BACKUP PERSON

Sterling Jones

Infrastructure Inspection and Management Team, HRDI-10

Vacant

Team Leader

PRIMARY RESPONSIBILITIES

- Infrastructure Inspection and Management Team Leader

MAJOR PROJECTS

- Stewardship and management of existing bridges
- NDE
- Bridge management systems
- Corrosion and coating

Vacant

NDE Program Manager

PRIMARY RESPONSIBILITIES

- Bridge NDE
- NDE Validation Center Manager

MAJOR PROJECTS

- NDE technologies for bridges
- Ground-penetrating radar (GPR), including the High-speed Electromagnetic Roadway Mapping and Evaluation System (HERMES) and the Precision Electromagnetic Roadway Evaluation System (PERES)
- Crack detection methods
- Condition assessment of prestressed tendons
- Automated ultrasonic testing

BACKUP PERSON

Infrastructure Inspection and Management Team, HRDI-10

(continued)

Shuang-Ling Chong

Research Chemist

202-493-3081 · shuang-ling.chong@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Bridge coating research
- Paint testing and coating evaluation methods
- Oversight of Paint, Corrosion, and Scanning Electron Microscope Labs
- Dissemination of coating research results
- Solutions for field coating failure problems

MAJOR PROJECTS

- Accelerated test methods for evaluation of coating materials
- Performance evaluation of fast drying coatings

BACKUP PERSON

Seung-Kyoung Lee

Paul Virmani

Research Chemist

202-493-3052 · paul.virmani@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Corrosion protection systems
- Bridge deck durability

MAJOR PROJECTS

- Corrosion costs and preventive strategies
- Nondestructive tools for corrosion detection
- Cathodic protection systems
- Corrosion resistant reinforcement

BACKUP PERSON

Seung-Kyoung Lee

Seung-Kyoung Lee

Research Corrosion Engineer

202-493-3077 · seung-kyoung.lee@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Corrosion protection of highway structures

MAJOR PROJECTS

- Corrosion of reinforced concrete bridge elements
- Material integrity testing for bridges

BACKUP PERSON

Paul Virmani

Pavement Materials and Construction Team, HRDI-11

Tom Harman

Team Leader

202-493-3072 · tom.harman@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Team Leader
- Asphalt Pavement Technology Program
- Concrete Pavement Technology Program
- Simulation, Imaging, and Mechanics of Asphalt Pavements (SIMAP)
- Aggregate research

MAJOR PROJECTS

- TRB Superpave® Committee
- Accelerated Loading Facility (ALF) experiment
- Understanding the performance of modified binders in asphalt mixes

BACKUP PERSONS

Terry Mitchell
Jack Youtcheff
Peter Kopac

Jack Youtcheff

Materials Research Chemist

202-493-3090 · jack.youtcheff@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Asphalt Group Leader
- Chemistry Lab Manager
- Asphalt chemistry and technology

MAJOR PROJECTS

- Moisture sensitivity of asphalt
- Fundamental properties of asphalt and modified asphalt
- Understanding the performance of modified binders in asphalt mixes

BACKUP PERSON

Ernest Bastian

Pavement Materials and Construction Team, HRDI-11

(continued)

Terry Mitchell

Senior Materials Research Engineer

202-493-3147 · terry.mitchell@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- ALF Manager
- Asphalt technology
- Performance-related specifications

MAJOR PROJECTS

- Performance-related specifications
- AASHTO Materials Reference Lab (AMRL) Coordination
- ALF operation
- Understanding the performance of modified binders in asphalt mixes

BACKUP PERSON

Tom Harman

Ernest Bastian

Materials Research Chemist

202-493-3075 · ernest.bastian@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- SIMAP Lab Manager
- Asphalt rheology and chemistry

MAJOR PROJECTS

- Fundamental properties of asphalt and modified asphalt
- National Research Council research associate manager

BACKUP PERSON

Jack Youtcheff

Nelson Gibson

Materials Research Engineer

202-493-3073 · nelson.gibson@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Asphalt Lab Manager (Binder and Mixture)
- ALF research
- Asphalt technology

MAJOR PROJECTS

- Superpave
- Performance tests
- Understanding the performance of modified binders in asphalt mixes

BACKUP PERSON

Terry Mitchell

Peter Kopac

Highway Research Engineer

202-493-3151 · peter.kopac@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Concrete Group Leader
- PCC pavement construction
- PCC pavement performance-related specifications
- Statistical quality control
- Quality assurance specifications

MAJOR PROJECTS

- FRP composites
- Performance-related specifications
- Optimal statistical acceptance procedures
- Smoothness specification procedures

BACKUP PERSON

Tom Harman

Dennis Sixbey

Research Materials Engineer

202-493-3078 · dennis.sixbey@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Laboratory services support
- Surface characteristics
- PCC pavement materials

BACKUP PERSON

Jack Youtcheff

Fred Faridazar

Highway Research Engineer

202-493-3076 · fred.faridazar@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Computer guidelines for PCC pavement performance prediction
- Long-term behavior of jointed concrete pavement
- Early-age behavior of continuously reinforced concrete pavement
- Lithium technologies to mitigate or prevent alkali-silica reactivity (ASR)

MAJOR PROJECTS

- Computer-based guidelines for concrete pavements
- HIPERPAV

BACKUP PERSON

Peter Kopac

Richard Meininger

Materials Research Engineer

202-493-3459 · richard.meininger@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- PCC Labs Manager
- PCC component materials, properties, and specifications
- PCC mixture proportioning
- PCC properties and performance

MAJOR PROJECTS

- Rapid test for alkali-silica susceptibility
- PCC freeze-thaw performance
- Optimization of concrete mixture
- PCC Thermal Coefficient of Expansion-test method and data for Long-Term Pavement Performance (LTPP) database

BACKUP PERSON

Peter Kopac

Pavement Design and Performance Modeling Team, HRDI-12

Katherine Petros

Team Leader

202-493-3154 · katherine.petros@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Pavement design and performance modeling

MAJOR PROJECTS

- *Mechanistic-Empirical Pavement Design Guide*
- Design Guide Implementation Team
- Mechanistic performance prediction models
- Performance-related specifications

BACKUP PERSON

James Sherwood

Imad Basheer

Highway Research Engineer

202-493-3148 · imad.basheer@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- Computation Lab Manager
- Pavement structural design
- Performance-related specifications

MAJOR PROJECTS

- *Mechanistic-Empirical Pavement Design Guide*
- Performance prediction models
- Pooled funds

BACKUP PERSON

Katherine Petros

Vacant

Highway Research Engineer

202-493-3149

PRIMARY RESPONSIBILITIES

- Pavement performance modeling

MAJOR PROJECTS

- Heavy vehicle/tire impacts on pavement damage
- Mechanistic analysis of pavement structures/life-cycle costing
- Asphalt performance prediction modeling

BACKUP PERSONS

Katherine Petros
James Sherwood

James Sherwood

Highway Research Engineer

202-493-3150 · jim.sherwood@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- PCC pavement design and performance
- PCC pavement maintenance and rehabilitation

MAJOR PROJECTS

- Concrete performance prediction modeling
- Long-range plan for concrete pavement technology
- Ultra-thin whitetopping

BACKUP PERSONS

Katherine Petros

Long-Term Pavement Performance Team, HRDI-13

Aramis López

Team Leader

202-493-3145 · aramis.lopez@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- LTPP Team Leader
- LTPP product coordination
- LTPP daily operations
- LTPP technical support services
- LTPP international coordination
- TRB LTPP Committee
- TRB LTPP Expert Task Groups (ETG)

BACKUP PERSON

Jack Springer

Jack Springer

Highway Research Engineer

202-493-3144 · jack.springer@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- LTPP field operations
- LTPP materials testing
- LTPP seasonal monitoring data
- LTPP distress data collection
- LTPP Automated Weather Stations
- LTPP Materials Reference Lab
- Layer thickness using GPR
- Regional contract support
- Resilient Modulus testing
- TRB ETG on LTPP materials and Falling-Weight Deflectometer (FWD) data collection and analysis

BACKUP PERSON

Aramis López

Long-Term Pavement Performance Team, HRDI-13

(continued)

Larry Wiser

Highway Research Engineer

202-493-3079 · larry.wiser@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- LTPP data analysis
- LTPP profile measurement
- LTPP data studies and computed parameters

MAJOR PROJECTS

- Data analysis projects and contracts
- TRB ETG on LTPP data analysis
- ETG on Distress and Profile Data collection and analysis

BACKUP PERSON

Aramis López

Eric Weaver

Highway Research Engineer

202-493-3153 · eric.weaver@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- LTPP database activities
 - LTPP FWD operations
 - LTPP documentation
- #### MAJOR PROJECTS
- FWD data collection
 - FWD calibration
 - LTPP database management
 - TRB ETG on LTPP Database Development and Operations

BACKUP PERSON

Aramis López

Deborah Walker

Highway Research Engineer

202-493-3068 · deborah.walker@fhwa.dot.gov

PRIMARY RESPONSIBILITIES

- LTPP traffic activities
- LTPP communications

MAJOR PROJECTS

- Specific Pavement Studies Traffic Pooled Fund Study
- LTPP traffic analysis software
- LTPP traffic data collection
- LTPP traffic data forecasting and back-casting

BACKUP PERSON

Aramis López

Antonio Nieves

LTPP Field Engineer Atlanta Resource Center

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PRIMARY RESPONSIBILITIES

- LTPP Products Team Leader
- LTPP products

MAJOR PROJECTS

- LTPP DataPave Online
- LTPPBind software
- TRB Product Subcommittee

BACKUP PERSON

Aramis López

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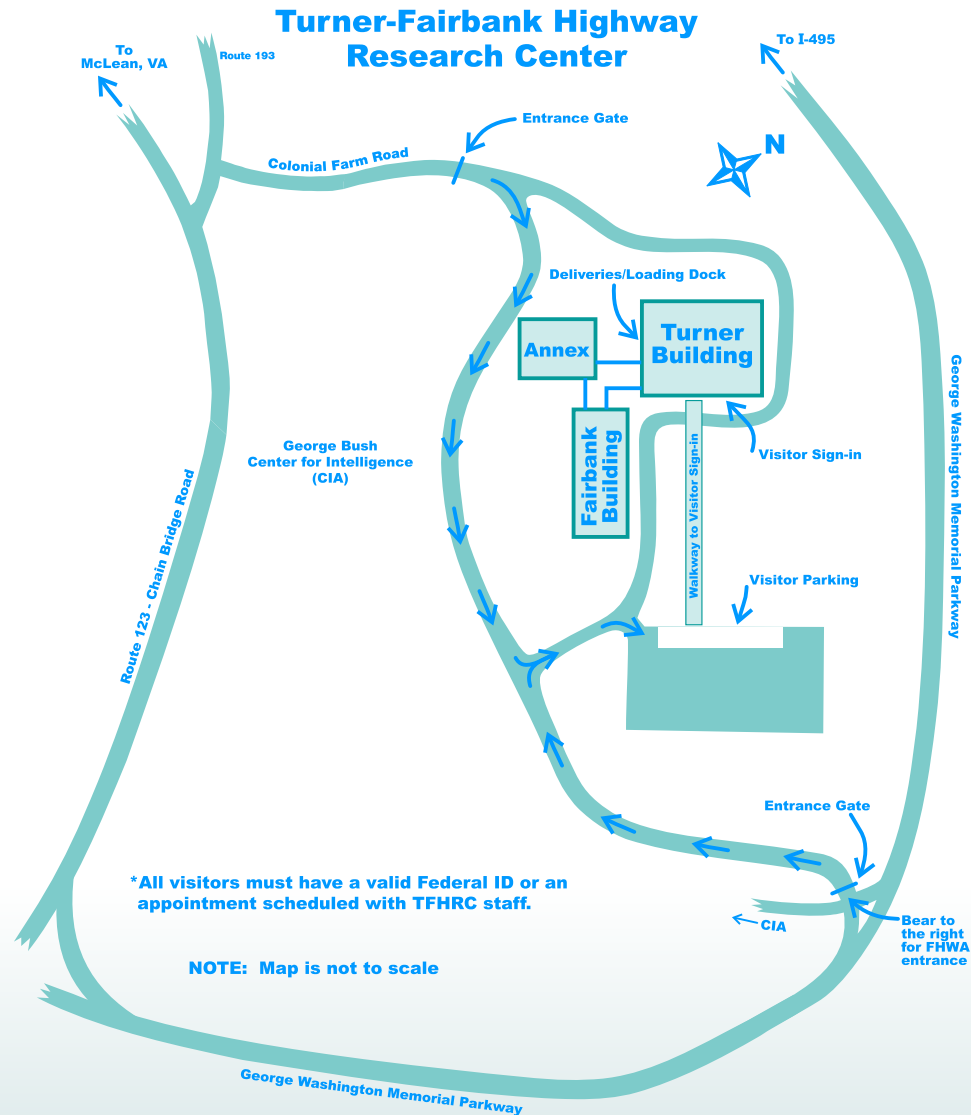
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O'Fallon	John	202-493-3051	T-111	HRDI-07	24
Opiela	Ken	202-493-3371	T-301	HRDS-05	19
Oskard	Mort	202-493-3339	T-303	HRDS-04	17
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Persaud	Rudy	202-493-3391	T-204	HRDO-04	15
Petros	Katherine	202-493-3154	F-209	HRDI-12	28
Rand	Vicki	202-493-3166	T-305	HRPD-01	7
Richter	Cheryl	202-493-3070	F-209	HRDI-04	22
Roberts	Carol	202-493-3185	T-310	HRRM-01	5
Rousseau	Gabriel	202-493-3383	T-210	HRDS-07	20
Seward	Denise	202-493-3471	T-310	HRRM-01	5
Sherwood	James	202-493-3150	F-209	HRDI-12	28
Sixbey	Dennis	202-493-3078	F-211	HRDI-11	27
Soneira	Martha	202-493-3468	F-204	HRTS-02	10
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Tan	Carol	202-493-3315	T-210	HRDS-06	19
Thompson	Dale	202-493-3420	T-204	HRDO-03	14
Trentacoste	Michael	202-493-3260	T-306	HRDS-01	17
VanGorder	Randall	202-493-3266	T-204	HRDO-03	14
Vanlandingham	Dawn	202-493-3198	F-204	HRTS-02	10
Virmani	Paul	202-493-3052	T-111	HRDI-10	26
Walker	Deborah	202-493-3068	F-209	HRDI-13	29
Weaver	Eric	202-493-3153	F-209	HRDI-13	29
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Williams	Kimberly	202-493-3423	F-219	HRTS-01	10
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Williams	Monique	202-493-3143	F-209	HRDI-01	22
Wiser	Larry	202-493-3079	F-206	HRDI-13	29
Wood	Cara	202-493-3302	T-210	HRDS-02	17
Wright	William	202-493-3053	A-103	HRDI-06	23
Yen	Phillip	202-493-3056	T-111	HRDI-07	24
Youtcheff	Jack	202-493-3090	F-110	HRDI-11	26
Zaccagnino	Bill	202-493-3183	T-305	HRPD-01	7

Directions



FROM

REAGAN NATIONAL AIRPORT

Take the George Washington (GW) Memorial Parkway toward Washington, DC. Continue along the GW Memorial Parkway approximately 15.8 km (9.8 mi). Continue past the exit for Route 123 and take the exit marked by a small brown sign that reads, "George Bush Center for Intelligence CIA/FHWA." At the yield sign, take the entrance that veers to the right before the gates to the CIA. This gate is open Monday–Friday from 6 a.m. until 6 p.m. only. Use gate off of Route 193 on Colonial Farm Road for access at other times. (See directions from Dulles Airport.)

FROM

DULLES AIRPORT

Take the Dulles Toll Road (Route 267) east to the Route 123/McLean exit. Travel on Route 123/Dolly Madison Boulevard until you reach a stoplight at the intersection with Route 193/Georgetown Pike. Turn left on Route 193. Turn right at the first road (Colonial Farm Road). Continue along the road past the CIA entrances on the right until you reach a gated entrance to the TFHRC complex. There is a security guard on duty at all times, and this gate is open 24 hours a day, 7 days a week.

FROM

POINTS NORTH

From points north of Washington, DC, take I-495 (Capital Beltway) around the west side of Washington, DC, to the GW Memorial Parkway, the first exit in Virginia. Continue along the parkway approximately 4.2 km (2.6 mi). Take the exit indicated by the small brown sign that reads, "George Bush Center for Intelligence CIA/FHWA." Take the entrance that veers to the right before the gates to the CIA. This gate is open Monday–Friday from 6 a.m. until 6 p.m. only. Use gate off of Route 193 on Colonial Farm Road for access at other times. (See directions from Dulles Airport.)

FROM

POINTS SOUTH

From points south of Washington, DC, take I-495 North/ Rockville to the GW Memorial Parkway exit. Continue along the parkway approximately 4.2 km (2.6 mi). Take the exit indicated by the small brown sign that reads, "George Bush Center for Intelligence CIA/FHWA." Take the entrance that veers to the right before the gates to the CIA. This gate is open Monday–Friday from 6 a.m. until 6 p.m. only. Use gate off of Route 193 on Colonial Farm Road for access at other times. (See directions from Dulles Airport.)



VISIT US ON THE WEB AT: WWW.TFHRC.GOV

Nassif Building/TFHRC Shuttle Schedule

A daily shuttle service operates between the FHWA Nassif Building and TFHRC. The service begins at 7:00 a.m. from the Nassif Building, Washington, DC, from the 6th Street side (near the cafeteria).

The travel time to TFHRC is approximately 20 minutes. The schedule for the shuttle service is as follows:

Depart Nassif	Arrive TFHRC	Depart TFHRC	Arrive Nassif
7:00 a.m.	7:20 a.m.	7:25 a.m.	7:55 a.m.
8:00 a.m.	8:20 a.m.	8:45 a.m.	9:10 a.m.
9:30 a.m.	9:50 a.m.	10:00 a.m.	10:20 a.m.
10:30 a.m.	10:50 a.m.	11:00 a.m.	11:20 a.m.
12:00 noon	12:20 p.m.	12:30 p.m.	12:50 p.m.
1:00 p.m.	1:20 p.m.	1:30 p.m.	1:50 p.m.
2:00 p.m.	2:20 p.m.	2:45 p.m.	3:05 p.m.
3:15 p.m.	3:35 p.m.	3:45 p.m.	4:05 p.m.
4:15 p.m.	4:35 p.m.	5:00 p.m.	5:20 p.m.

All DOT employees, contractors, and visitors are permitted to ride the shuttle while on official business. All visitors must have a valid Federal ID or an appointment scheduled with TFHRC staff.